

Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/702,843 10/720,843
Filing Date	24 November 2003
First Named Inventor	Schwartz
Art Unit	1654
Examiner Name	J.E. Russel
Attorney Docket Number	SOL.003.DIV1

Sheet 1 of 4

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
JER	AA	3	8	0	8	0	8	6	04/30/74	Mosimann et al.	161	93	04/07/72
	AB	4	2	4	4	7	2	1	01/13/81	Gupta et al.	65	31	01/31/79
	AC	4	4	6	1	8	7	6	07/24/84	Lieberman et al.	525	374	09/09/82
	AD	4	7	0	7	4	4	0	11/17/87	Stavrianopoulos	435	6	01/30/84
	AE	4	7	7	5	6	1	9	10/04/88	Urdea	435	6	10/16/84
	AF	4	8	7	4	8	1	3	10/17/89	O'Shannessy	525	54.1	02/09/87
	AG	5	1	1	8	6	0	5	06/02/92	Urdea	435	6	09/29/88
	AH	5	1	5	1	5	0	7	09/29/92	Hobbs, Jr. et al.	536	23	06/12/91
	AI	5	2	0	6	3	7	0	04/27/93	Schwartz et al.	546	281	05/26/92
	AJ	5	2	1	0	2	0	3	05/11/93	Musso et al.	548	130	05/07/92
	AK	5	3	8	0	8	3	3	01/10/95	Urdea	536	22.1	12/13/91
	AL	5	4	2	0	2	8	5	05/30/95	Schwartz et al.	546	281	05/30/95
	AM	5	5	2	1	2	9	0	05/28/96	Sivam et al.	530	391.5	11/21/94
	AN	5	5	6	7	6	2	4	10/22/96	Smith	436	163	04/27/95
	AO	5	6	7	9	7	7	8	10/21/97	Abrams et al.	530	391.5	11/03/93
	AP	5	7	5	3	5	2	0	05/19/98	Schwartz et al.	436	542	02/06/95
	AQ	5	7	8	9	5	7	6	08/04/98	Daily et al.	536	25.6	12/09/94
	AR	5	7	9	2	6	1	5	08/11/98	Arnold et al.	435	6	03/06/97
	AS	5	8	3	7	8	5	6	11/17/98	Arnold, Jr. et al.	536	24.5	03/06/98
	AT	5	8	3	7	8	6	0	11/17/98	Anderson et al.	536	25.3	03/05/97
	AU	5	8	5	4	4	1	0	12/29/98	Arnold, Jr. et al.	536	23.1	03/31/94
	AV	5	8	5	6	5	7	1	01/05/99	Berninger et al.	564	37	06/07/95
	AW	5	8	7	7	2	2	0	03/02/99	Schwartz et al.	514	626	03/06/97
	AX	5	8	8	0	2	7	0	03/09/99	Berninger et al.	530	391.1	12/23/97

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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
JER	AY	5	9	0	0	4	8	1	05/04/99	Lough et al.	536	55.3	11/06/96
	AZ	5	9	5	5	9	7		09/21/99	Arnold, Jr. et al.	536	24.3	06/30/97
	BA	5	9	5	8	9	0	1	09/28/99	Dwyer et al.	514	75	06/05/96
	BB	6	0	0	1	8	2	6	12/14/99	Murrer et al.	514	183	07/20/92
	BC	6	0	2	8	1	8	8	02/22/00	Arnold, Jr. et al.	536	25.3	11/21/94
	BD	6	0	2	0	5	2	6	02/01/00	Schwartz et al.	564	153	07/22/96
	BE	6	0	3	4	1	3	5	03/07/00	Schwartz et al.	514	616	03/06/97
	BF	6	1	3	3	4	3	6	10/17/00	Köster et al.	536	24.3	09/19/97
	BG	6	2	1	7	8	4	5	04/17/01	Schwartz et al.	424	1.69	11/06/97

### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
JER	BH	0	0	0	5	2	0	8	02/03/00	PCT				
	BI	0	0	0	5	2	4	3	02/03/00	PCT				
	BJ	0	0	0	8	0	4	2	02/17/00	PCT				
	BK	0	0	4	0	5	9	0	07/13/00	PCT				
	BL	0	1	0	9	3	8	5	02/08/01	PCT A2				
	BM	0	2	8	0	4	7	4	<del>02/19/98</del>	EP A2 (08/1988)				
	BN	0	2	8	0	4	7	4	<del>02/19/98</del>	EP B1 (11/1993)				
	BO	0	3	6	1	7	6	8	<del>09/19/99</del>	EP A2 (04/1990)				
	BP	0	3	8	4	7	6	9	02/23/90	EP B1				
	BQ	9	4	1	0	1	4	9	05/11/94	PCT				

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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Sheet 3	of 4	Attorney Docket Number	SOL.003.DIV1

JER	BR	Abrams <i>et al.</i> , "Technetium-99m-Human Polyclonal IgG Radiolabeled via the Hydrazino Nicotinamide Derivative for Imaging Focal Sites of Infection in Rats", <i>J. Nucl. Med.</i> , <u>31(12)</u> :2022-2028; (1990)
	BS	Agrawal, S. (Ed.), <u>Methods in Molecular Biology</u> , 20, Book: Protocols for Oligonucleotides and Analogs, Synthesis and Properties, Humana Press, (1993) , pages ix-xi.
	BT	Bischoff <i>et al.</i> , "Introduction of 5'-Terminal Functional Groups into Synthetic Oligonucleotides for Selective Immobilization", <i>Anal. Biochem.</i> , <u>164</u> :336-344; (1987)
	BU	Bridger <i>et al.</i> , "A Comparison of Cleavable and Noncleavable Hydrazinopyridine Linkers for the <sup>99m</sup> Tc Labeling of Fab' Monoclonal Antibody Fragments", <i>Bioconj. Chem.</i> , <u>7</u> :255-264; (1996)
	BV	Chang <i>et al.</i> , "Early Results in the International Design of New Bifunctional Chelators", <i>6th Conference on Radioimmuno-detection and Radioimmunotherapy of Cancer - Supplement to Cancer</i> , <u>80</u> :2347-2353; (1997)
	BW	Ellis <i>et al.</i> , "Development and Clinical Uses of Haemophilus b Conjugate Vaccines", Book: Marcel Dekker, Inc.; New York; (1994) , pages xi-xii.
	BX	Ghosh <i>et al.</i> , "Covalent attachment of oligonucleotides to solid supports", <i>Nucl. Acids. Res.</i> , <u>15(3)</u> :5353-5372; (1987)
	BY	Ghosh <i>et al.</i> , "Synthesis of 5'-Oligonucleotide Hydrazide Derivatives and Their Use in Preparation of Enzyme-Nucleic Acid Hybridization Probes", <i>Anal. Biochem.</i> , <u>178</u> :43-51; (1989)
	BZ	Greene <i>et al.</i> , "Protective Groups in Organic Synthesis", Book: 2nd Edition, John Wiley & Sons, Inc. , pages ix-x.
	CA	Hermanson <i>et al.</i> , <i>Bioconjugate Techniques</i> : Academic Press, 1996 , pages vii-xxiii.
	CB	Hostomsky <i>et al.</i> , "Solid-phase assembly of DNA duplexes from synthetic oligonucleotides," <i>Nucl. Acid. Symp. Ser.</i> , <u>18</u> :241-244; (1987)
	CC	IUPAC-IUB: "IUPAC-IUB Commission on Biochemical Nomenclature Abbreviated Nomenclature of Synthetic Polypeptides (Polymerized Amino Acids)", <i>Biochem.</i> , <u>11(5)</u> :942-944; (1972)
	CD	Kaneko <i>et al.</i> , "New Hydrazone Derivates of Adriamycin and Their Immunoconjugates - a Correlation between Acid Stability and Cytotoxicity," <i>Bioconj. Chem.</i> , <u>2(3)</u> :133-141; (1991)
	CE	King <i>et al.</i> , "Preparation of Protein Conjugates via Intermolecular Hydrazone Linkage", <i>Biochem.</i> , <u>25</u> :5774-5779; (1986)
	CF	Marble <i>et al.</i> , "RNA Transcription from Immobilized DNA Templates," <i>Biotechnol. Prog.</i> <u>11</u> :393-396; (1995)

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JER	CG	Reynolds <i>et al.</i> , "Antisense oligonucleotides containing an internal non-nucleotide-based linker promote site-specific cleavage of RNA", <i>Nucl. Acids. Res.</i> , <u>24(4)</u> :760-765; (1996)
	CH	Reynolds <i>et al.</i> , "Synthesis and thermodynamics of oligonucleotides containing chirally pure Rp methylphosphonate linkages", <i>Nucl. Acids. Res.</i> <u>24(22)</u> :4584-4591; (1996)
	CI	Rose <i>et al.</i> , "Natural Peptides as Building Blocks for the Synthesis of Large Protein-like Molecules with Hydrazone and Oxime Linkages", <i>Bioconjugate Chem.</i> , <u>7</u> :552-556; (1996)
	CJ	Salo <i>et al.</i> , "Aminooxy Functionalized Oligonucleotides: Preparation, On-Support Derivatization, and Postsynthetic Attachment to Polymer Support", <i>Bioconjugate Chem.</i> , <u>10</u> :815-823; (1999)
	CK	Schwartz <i>et al.</i> , "Preparation of Hydrazino-Modified Proteins and Their Use for the Synthesis of 99mTc-Protein Conjugates," <i>Bioconjugate Chem.</i> , <u>2</u> :333-336; (1991)
	CL	Timofeev <i>et al.</i> , "Regioselective immobilization of short oligonucleotides to acrylic copolymer gels", <i>Nucl. Acids. Res.</i> , <u>24(16)</u> :3142-3148; (1996)
	CM	Trevisiol <i>et al.</i> , "The Oxyamino-Aldehyde Coupling Reaction: An Efficient Method for the Derivatization of Oligonucleotides", <i>Tetrahedron Lett.</i> , <u>38(50)</u> :8687-8690; (1997)
	CN	Trevisiol <i>et al.</i> , "Synthesis of Nucleoside Triphosphate that Contain an Aminooxy Function for 'Post-Amplification Labeling'", <i>Eur. J. Org. Chem.</i> , pages 211-217; (2000)

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